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6270 #5
240/345
100/345

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/526,193

DATE: 04/03/2000
TIME: 11:10:05

Input Set: I526193.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

ENTERED
RECEIVED

APR 16 2001

TECH CENTER 1600/2900

1 <110> APPLICANT: Hayden, Michael R.
2 Wilson, Angela R.
3 Pimstone, Simon N.
4 <120> TITLE OF INVENTION: METHODS AND REAGENTS FOR MODULATING
5 CHOLESTEROL LEVELS
6 <130> FILE REFERENCE: 50110/002005
7 <140> CURRENT APPLICATION NUMBER: US/09/526,193
8 <141> CURRENT FILING DATE: 2000-03-15
9 <150> EARLIER APPLICATION NUMBER: 60/124,702
10 <151> EARLIER FILING DATE: 1999-03-15
11 <150> EARLIER APPLICATION NUMBER: 60/138,048
12 <151> EARLIER FILING DATE: 1999-06-08
13 <150> EARLIER APPLICATION NUMBER: 60/139,600
14 <151> EARLIER FILING DATE: 1999-06-17
15 <150> EARLIER APPLICATION NUMBER: 60/151,977
16 <151> EARLIER FILING DATE: 1999-09-01
17 <160> NUMBER OF SEQ ID NOS: 287
18 <170> SOFTWARE: FastSEQ for Windows Version 4.0
19 <210> SEQ ID NO 1
20 <211> LENGTH: 2261
21 <212> TYPE: PRT
22 <213> ORGANISM: Homo sapiens
23 <400> SEQUENCE: 1
24 Met Ala Cys Trp Pro Gln Leu Arg Leu Leu Trp Lys Asn Leu Thr
25 1 5 10 15
26 Phe Arg Arg Arg Gln Thr Cys Gln Leu Leu Leu Glu Val Ala Trp Pro
27 20 25 30
28 Leu Phe Ile Phe Leu Ile Leu Ile Ser Val Arg Leu Ser Tyr Pro Pro
29 35 40 45
30 Tyr Glu Gln His Glu Cys His Phe Pro Asn Lys Ala Met Pro Ser Ala
31 50 55 60
32 Gly Thr Leu Pro Trp Val Gln Gly Ile Ile Cys Asn Ala Asn Asn Pro
33 65 70 75 80
34 Cys Phe Arg Tyr Pro Thr Pro Gly Glu Ala Pro Gly Val Val Gly Asn
35 85 90 95
36 Phe Asn Lys Ser Ile Val Ala Arg Leu Phe Ser Asp Ala Arg Arg Leu
37 100 105 110
38 Leu Leu Tyr Ser Gln Lys Asp Thr Ser Met Lys Asp Met Arg Lys Val
39 115 120 125
40 Leu Arg Thr Leu Gln Gln Ile Lys Lys Ser Ser Ser Asn Leu Lys Leu
41 130 135 140
42 Gln Asp Phe Leu Val Asp Asn Glu Thr Phe Ser Gly Phe Leu Tyr His
43 145 150 155 160
44 Asn Leu Ser Leu Pro Lys Ser Thr Val Asp Lys Met Leu Arg Ala Asp

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45 165 170 175
46 Val Ile Leu His Lys Val Phe Leu Gln Gly Tyr Gln Leu His Leu Thr
47 180 185 190
48 Ser Leu Cys Asn Gly Ser Lys Ser Glu Glu Met Ile Gln Leu Gly Asp
49 195 200 205
50 Gln Glu Val Ser Glu Leu Cys Gly Leu Pro Arg Glu Lys Leu Ala Ala
51 210 215 220
52 Ala Glu Arg Val Leu Arg Ser Asn Met Asp Ile Leu Lys Pro Ile Leu
53 225 230 235 240
54 Arg Thr Leu Asn Ser Thr Ser Pro Phe Pro Ser Lys Glu Leu Ala Glu
55 245 250 255
56 Ala Thr Lys Thr Leu Leu His Ser Leu Gly Thr Leu Ala Gln Glu Leu
57 260 265 270
58 Phe Ser Met Arg Ser Trp Ser Asp Met Arg Gln Glu Val Met Phe Leu
59 275 280 285
60 Thr Asn Val Asn Ser Ser Ser Ser Thr Gln Ile Tyr Gln Ala Val
61 290 295 300
62 Ser Arg Ile Val Cys Gly His Pro Glu Gly Gly Leu Lys Ile Lys
63 305 310 315 320
64 Ser Leu Asn Trp Tyr Glu Asp Asn Asn Tyr Lys Ala Leu Phe Gly Gly
65 325 330 335
66 Asn Gly Thr Glu Glu Asp Ala Glu Thr Phe Tyr Asp Asn Ser Thr Thr
67 340 345 350
68 Pro Tyr Cys Asn Asp Leu Met Lys Asn Leu Glu Ser Ser Pro Leu Ser
69 355 360 365
70 Arg Ile Ile Trp Lys Ala Leu Lys Pro Leu Leu Val Gly Lys Ile Leu
71 370 375 380
72 Tyr Thr Pro Asp Thr Pro Ala Thr Arg Gln Val Met Ala Glu Val Asn
73 385 390 395 400
74 Lys Thr Phe Gln Glu Leu Ala Val Phe His Asp Leu Glu Gly Met Trp
75 405 410 415
76 Glu Glu Leu Ser Pro Lys Ile Trp Thr Phe Met Glu Asn Ser Gln Glu
77 420 425 430
78 Met Asp Leu Val Arg Met Leu Leu Asp Ser Arg Asp Asn Asp His Phe
79 435 440 445
80 Trp Glu Gln Gln Leu Asp Gly Leu Asp Trp Thr Ala Gln Asp Ile Val
81 450 455 460
82 Ala Phe Leu Ala Lys His Pro Glu Asp Val Gln Ser Ser Asn Gly Ser
83 465 470 475 480
84 Val Tyr Thr Trp Arg Glu Ala Phe Asn Glu Thr Asn Gln Ala Ile Arg
85 485 490 495
86 Thr Ile Ser Arg Phe Met Glu Cys Val Asn Leu Asn Lys Leu Glu Pro
87 500 505 510
88 Ile Ala Thr Glu Val Trp Leu Ile Asn Lys Ser Met Glu Leu Leu Asp
89 515 520 525
90 Glu Arg Lys Phe Trp Ala Gly Ile Val Phe Thr Gly Ile Thr Pro Gly
91 530 535 540
92 Ser Ile Glu Leu Pro His His Val Lys Tyr Lys Ile Arg Met Asp Ile
93 545 550 555 560
94 Asp Asn Val Glu Arg Thr Asn Lys Ile Lys Asp Gly Tyr Trp Asp Pro

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RAW SEQUENCE LISTING
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95	565	570	575
96	Gly Pro Arg Ala Asp Pro Phe Glu Asp Met Arg Tyr Val Trp Gly Gly		
97	580	585	590
98	Phe Ala Tyr Leu Gln Asp Val Val Glu Gln Ala Ile Ile Arg Val Leu		
99	595	600	605
100	Thr Gly Thr Glu Lys Lys Thr Gly Val Tyr Met Gln Gln Met Pro Tyr		
101	610	615	620
102	Pro Cys Tyr Val Asp Asp Ile Phe Leu Arg Val Met Ser Arg Ser Met		
103	625	630	635
104	640		
105	Pro Leu Phe Met Thr Leu Ala Trp Ile Tyr Ser Val Ala Val Ile Ile		
106	645	650	655
107	Lys Gly Ile Val Tyr Glu Lys Glu Ala Arg Leu Lys Glu Thr Met Arg		
108	660	665	670
109	Ile Met Gly Leu Asp Asn Ser Ile Leu Trp Phe Ser Trp Phe Ile Ser		
110	675	680	685
111	Ser Leu Ile Pro Leu Leu Val Ser Ala Gly Leu Leu Val Val Ile Leu		
112	690	695	700
113	Lys Leu Gly Asn Leu Leu Pro Tyr Ser Asp Pro Ser Val Val Phe Val		
114	705	710	715
115	720		
116	Phe Leu Ser Val Phe Ala Val Val Thr Ile Leu Gln Cys Phe Leu Ile		
117	725	730	735
118	Ser Thr Leu Phe Ser Arg Ala Asn Leu Ala Ala Cys Gly Ile		
119	740	745	750
120	Ile Tyr Phe Thr Leu Tyr Leu Pro Tyr Val Leu Cys Val Ala Trp Gln		
121	755	760	765
122	Asp Tyr Val Gly Phe Thr Leu Lys Ile Phe Ala Ser Leu Leu Ser Pro		
123	770	775	780
124	Val Ala Phe Gly Phe Gly Cys Glu Tyr Phe Ala Leu Phe Glu Glu Gln		
125	785	790	795
126	800		
127	Gly Ile Gly Val Gln Trp Asp Asn Leu Phe Glu Ser Pro Val Glu Glu		
128	805	810	815
129	Asp Gly Phe Asn Leu Thr Thr Ser Val Ser Met Met Leu Phe Asp Thr		
130	820	825	830
131	Phe Leu Tyr Gly Val Met Thr Trp Tyr Ile Glu Ala Val Phe Pro Gly		
132	835	840	845
133	Gln Tyr Gly Ile Pro Arg Pro Trp Tyr Phe Pro Cys Thr Lys Ser Tyr		
134	850	855	860
135	Trp Phe Gly Glu Glu Ser Asp Glu Lys Ser His Pro Gly Ser Asn Gln		
136	865	870	875
137	880		
138	Lys Arg Ile Ser Glu Ile Cys Met Glu Glu Pro Thr His Leu Lys		
139	885	890	895
140	Leu Gly Val Ser Ile Gln Asn Leu Val Lys Val Tyr Arg Asp Gly Met		
141	900	905	910
142	Lys Val Ala Val Asp Gly Leu Ala Leu Asn Phe Tyr Glu Gly Gln Ile		
143	915	920	925
144	Thr Ser Phe Leu Gly His Asn Gly Ala Gly Lys Thr Thr Thr Met Ser		
	930	935	940
	Ile Leu Thr Gly Leu Phe Pro Pro Thr Ser Gly Thr Ala Tyr Ile Leu		
	945	950	955
	Gly Lys Asp Ile Arg Ser Glu Met Ser Thr Ile Arg Gln Asn Leu Gly		960

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RAW SEQUENCE LISTING
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145	965	970	975
146	Val Cys Pro Gln His Asn Val Leu Phe Asp Met Leu Thr Val Glu Glu		
147	980	985	990
148	His Ile Trp Phe Tyr Ala Arg Leu Lys Gly Leu Ser Glu Lys His Val		
149	995	1000	1005
150	Lys Ala Glu Met Glu Gln Met Ala Leu Asp Val Gly Leu Pro Ser Ser		
151	1010	1015	1020
152	Lys Leu Lys Ser Lys Thr Ser Gln Leu Ser Gly Gly Met Gln Arg Lys		
153	1025	1030	1035
154	Leu Ser Val Ala Leu Ala Phe Val Gly Gly Ser Lys Val Val Ile Leu		
155	1045	1050	1055
156	Asp Glu Pro Thr Ala Gly Val Asp Pro Tyr Ser Arg Arg Gly Ile Trp		
157	1060	1065	1070
158	Glu Leu Leu Leu Lys Tyr Arg Gln Gly Arg Thr Ile Ile Leu Ser Thr		
159	1075	1080	1085
160	His His Met Asp Glu Ala Asp Val Leu Gly Asp Arg Ile Ala Ile Ile		
161	1090	1095	1100
162	Ser His Gly Lys Leu Cys Cys Val Gly Ser Ser Leu Phe Leu Lys Asn		
163	1105	1110	1115
164	Gln Leu Gly Thr Gly Tyr Tyr Leu Thr Leu Val Lys Lys Asp Val Glu		
165	1125	1130	1135
166	Ser Ser Leu Ser Ser Cys Arg Asn Ser Ser Ser Thr Val Ser Tyr Leu		
167	1140	1145	1150
168	Lys Lys Glu Asp Ser Val Ser Gln Ser Ser Ser Asp Ala Gly Leu Gly		
169	1155	1160	1165
170	Ser Asp His Glu Ser Asp Thr Leu Thr Ile Asp Val Ser Ala Ile Ser		
171	1170	1175	1180
172	Asn Leu Ile Arg Lys His Val Ser Glu Ala Arg Leu Val Glu Asp Ile		
173	1185	1190	1195
174	Gly His Glu Leu Thr Tyr Val Leu Pro Tyr Glu Ala Ala Lys Glu Gly		
175	1205	1210	1215
176	Ala Phe Val Glu Leu Phe His Glu Ile Asp Asp Arg Leu Ser Asp Leu		
177	1220	1225	1230
178	Gly Ile Ser Ser Tyr Gly Ile Ser Glu Thr Thr Leu Glu Glu Ile Phe		
179	1235	1240	1245
180	Leu Lys Val Ala Glu Glu Ser Gly Val Asp Ala Glu Thr Ser Asp Gly		
181	1250	1255	1260
182	Thr Leu Pro Ala Arg Arg Asn Arg Arg Ala Phe Gly Asp Lys Gln Ser		
183	1265	1270	1275
184	Cys Leu Arg Pro Phe Thr Glu Asp Asp Ala Ala Asp Pro Asn Asp Ser		
185	1285	1290	1295
186	Asp Ile Asp Pro Glu Ser Arg Glu Thr Asp Leu Leu Ser Gly Met Asp		
187	1300	1305	1310
188	Gly Lys Gly Ser Tyr Gln Val Lys Gly Trp Lys Leu Thr Gln Gln Gln		
189	1315	1320	1325
190	Phe Val Ala Leu Leu Trp Lys Arg Leu Leu Ile Ala Arg Arg Ser Arg		
191	1330	1335	1340
192	Lys Gly Phe Phe Ala Gln Ile Val Leu Pro Ala Val Phe Val Cys Ile		
193	1345	1350	1355
194	Ala Leu Val Phe Ser Leu Ile Val Pro Pro Phe Gly Lys Tyr Pro Ser		1360

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RAW SEQUENCE LISTING
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195	1365	1370	1375
196	Leu Glu Leu Gln Pro Trp Met Tyr Asn Glu Gln Tyr Thr Phe Val Ser		
197	1380	1385	1390
198	Asn Asp Ala Pro Glu Asp Thr Gly Thr Leu Glu Leu Leu Asn Ala Leu		
199	1395	1400	1405
200	Thr Lys Asp Pro Gly Phe Gly Thr Arg Cys Met Glu Gly Asn Pro Ile		
201	1410	1415	1420
202	Pro Asp Thr Pro Cys Gln Ala Gly Glu Glu Trp Thr Thr Ala Pro		
203	1425	1430	1435
204	Val Pro Gln Thr Ile Met Asp Leu Phe Gln Asn Gly Asn Trp Thr Met		
205	1445	1450	1455
206	Gln Asn Pro Ser Pro Ala Cys Gln Cys Ser Ser Asp Lys Ile Lys Lys		
207	1460	1465	1470
208	Met Leu Pro Val Cys Pro Pro Gly Ala Gly Gly Leu Pro Pro Pro Gln		
209	1475	1480	1485
210	Arg Lys Gln Asn Thr Ala Asp Ile Leu Gln Asp Leu Thr Gly Arg Asn		
211	1490	1495	1500
212	Ile Ser Asp Tyr Leu Val Lys Thr Tyr Val Gln Ile Ile Ala Lys Ser		
213	1505	1510	1515
214	Leu Lys Asn Lys Ile Trp Val Asn Glu Phe Arg Tyr Gly Gly Phe Ser		
215	1525	1530	1535
216	Leu Gly Val Ser Asn Thr Gln Ala Leu Pro Pro Ser Gln Glu Val Asn		
217	1540	1545	1550
218	Asp Ala Ile Lys Gln Met Lys Lys His Leu Lys Leu Ala Lys Asp Ser		
219	1555	1560	1565
220	Ser Ala Asp Arg Phe Leu Asn Ser Leu Gly Arg Phe Met Thr Gly Leu		
221	1570	1575	1580
222	Asp Thr Arg Asn Asn Val Lys Val Trp Phe Asn Asn Lys Gly Trp His		
223	1585	1590	1595
224	Ala Ile Ser Ser Phe Leu Asn Val Ile Asn Asn Ala Ile Leu Arg Ala		
225	1605	1610	1615
226	Asn Leu Gln Lys Gly Glu Asn Pro Ser His Tyr Gly Ile Thr Ala Phe		
227	1620	1625	1630
228	Asn His Pro Leu Asn Leu Thr Lys Gln Gln Leu Ser Glu Val Ala Leu		
229	1635	1640	1645
230	Met Thr Thr Ser Val Asp Val Leu Val Ser Ile Cys Val Ile Phe Ala		
231	1650	1655	1660
232	Met Ser Phe Val Pro Ala Ser Phe Val Val Phe Leu Ile Gln Glu Arg		
233	1665	1670	1675
234	Val Ser Lys Ala Lys His Leu Gln Phe Ile Ser Gly Val Lys Pro Val		
235	1685	1690	1695
236	Ile Tyr Trp Leu Ser Asn Phe Val Trp Asp Met Cys Asn Tyr Val Val		
237	1700	1705	1710
238	Pro Ala Thr Leu Val Ile Ile Ile Phe Ile Cys Phe Gln Gln Lys Ser		
239	1715	1720	1725
240	Tyr Val Ser Ser Thr Asn Leu Pro Val Leu Ala Leu Leu Leu Leu		
241	1730	1735	1740
242	Tyr Gly Trp Ser Ile Thr Pro Leu Met Tyr Pro Ala Ser Phe Val Phe		
243	1745	1750	1755
	Lys Ile Pro Ser Thr Ala Tyr Val Val Leu Thr Ser Val Asn Leu Phe		1760

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.



VERIFICATION SUMMARY
PATENT APPLICATION US/09/526,193DATE: 04/03/2000
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Line ? Error/Warning

Original Text

686 W "N" or "Xaa" used: Feature required
947 W "N" or "Xaa" used: Feature required
1460 W "N" or "Xaa" used: Feature required
1994 W "N" or "Xaa" used: Feature required
1995 W "N" or "Xaa" used: Feature required
1996 W "N" or "Xaa" used: Feature required
2146 W "N" or "Xaa" used: Feature required
2248 W "N" or "Xaa" used: Feature required
2298 W "N" or "Xaa" used: Feature required
2354 W "N" or "Xaa" used: Feature required

agagnnnnnn acacttagaa tgagcttcca tgtgtgag
gagttggact ntggattttt ctttgcaga gggacaag
ttttcctatg aggcacanag agtgatggag aaggctt
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